

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623949

Luminaire Tested: **IFLD-L-SA7C-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	46023.8 lumens	Max Intensity:	25561.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	19914.1 lumens	Field Lumens:	32608.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

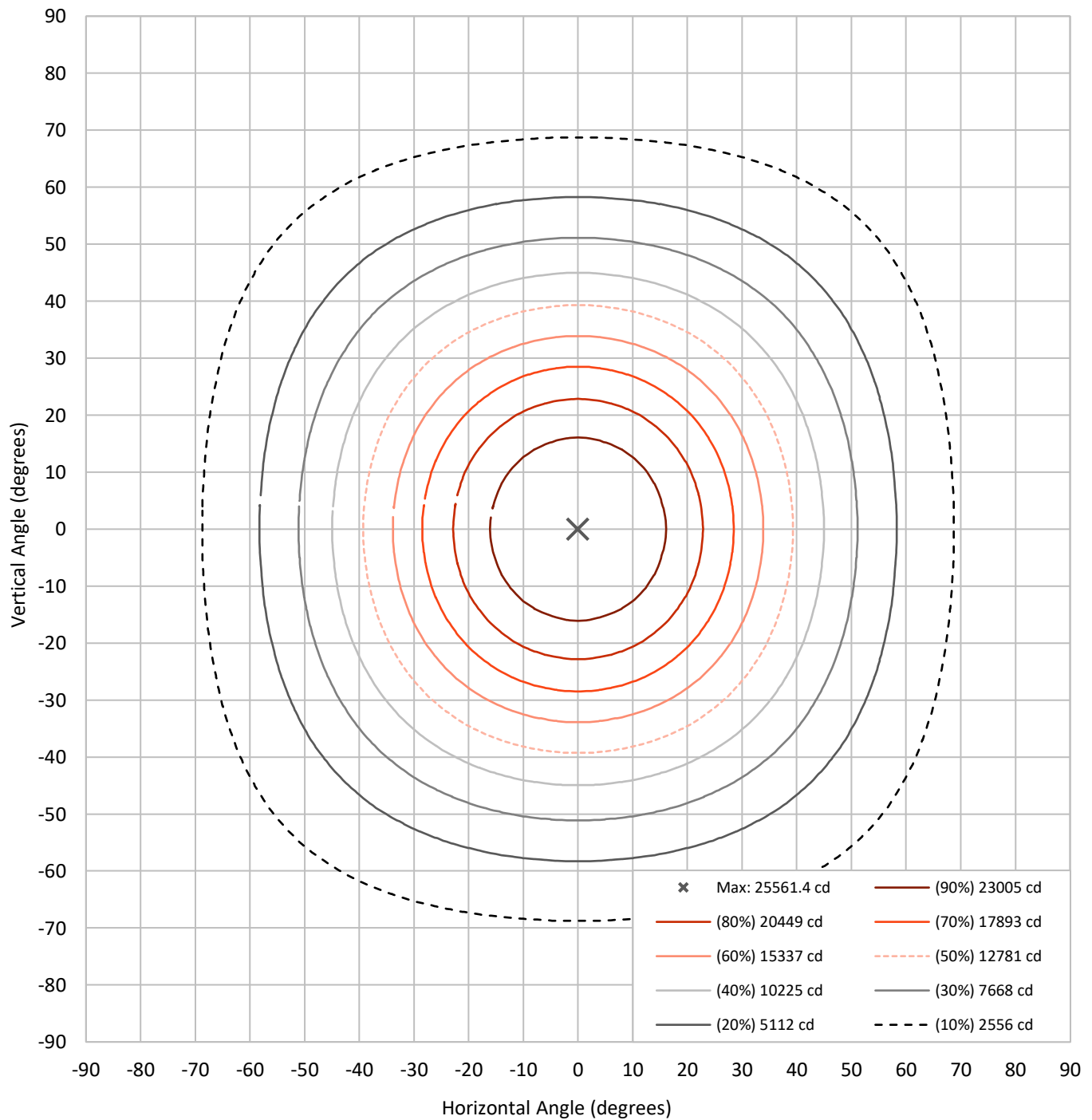
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623949

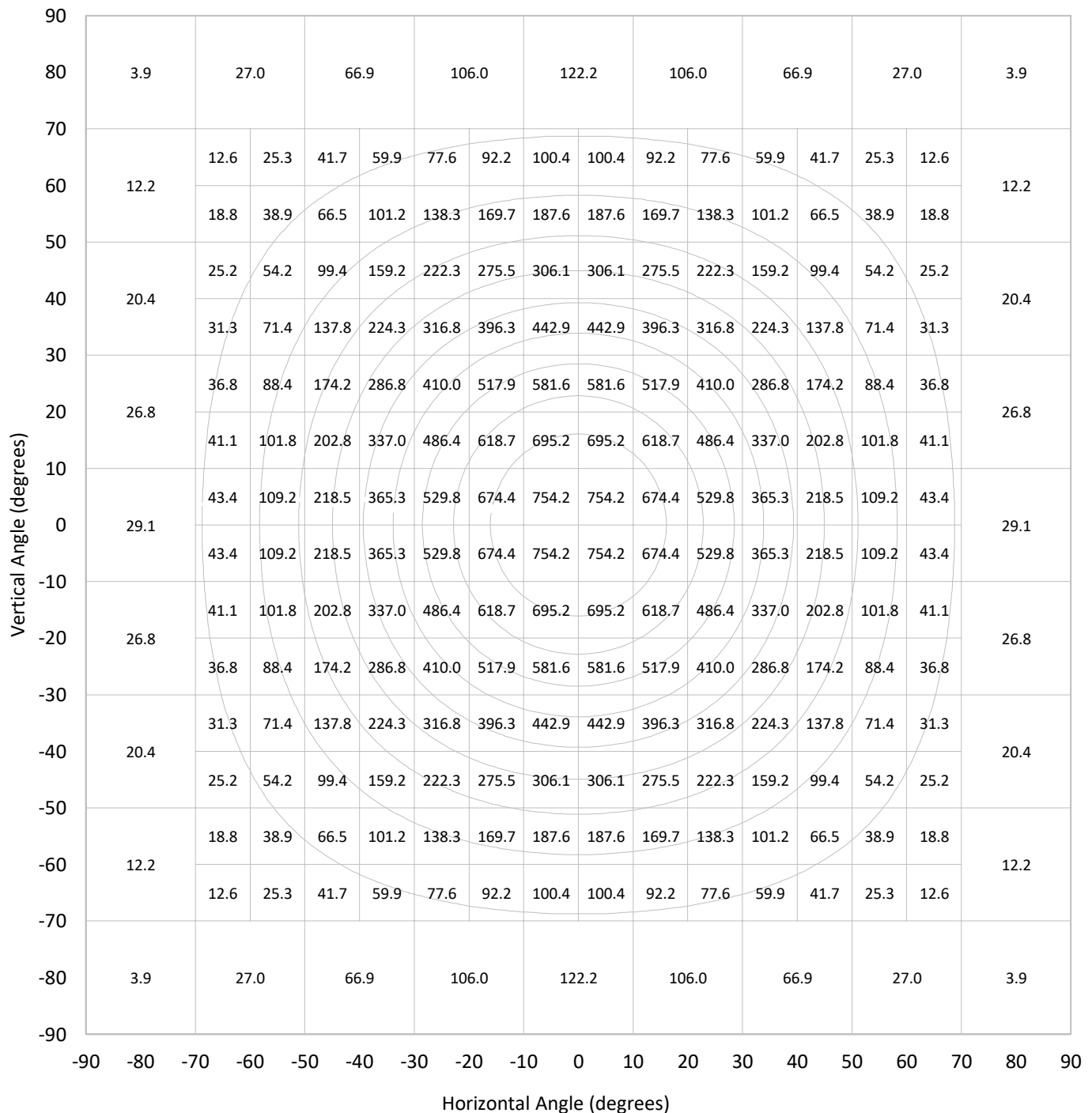
CATALOG NUMBER: IFLD-L-SA7C-740-U-77

Iso-Candela Plot



REPORT NUMBER: P623949
CATALOG NUMBER: IFLD-L-SA7C-740-U-77

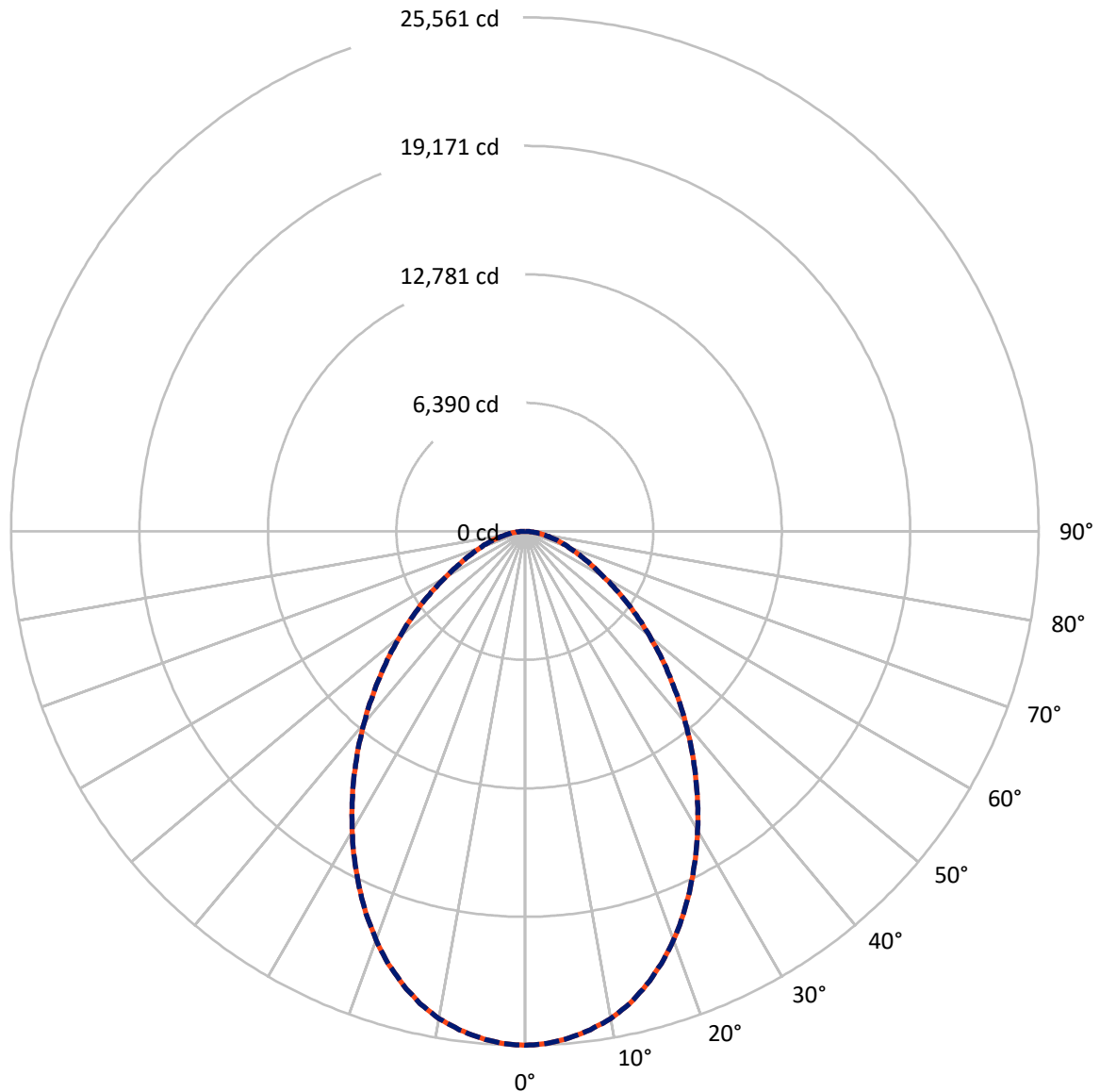
Lumen Table



REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

Luminous Intensity Polar Plot

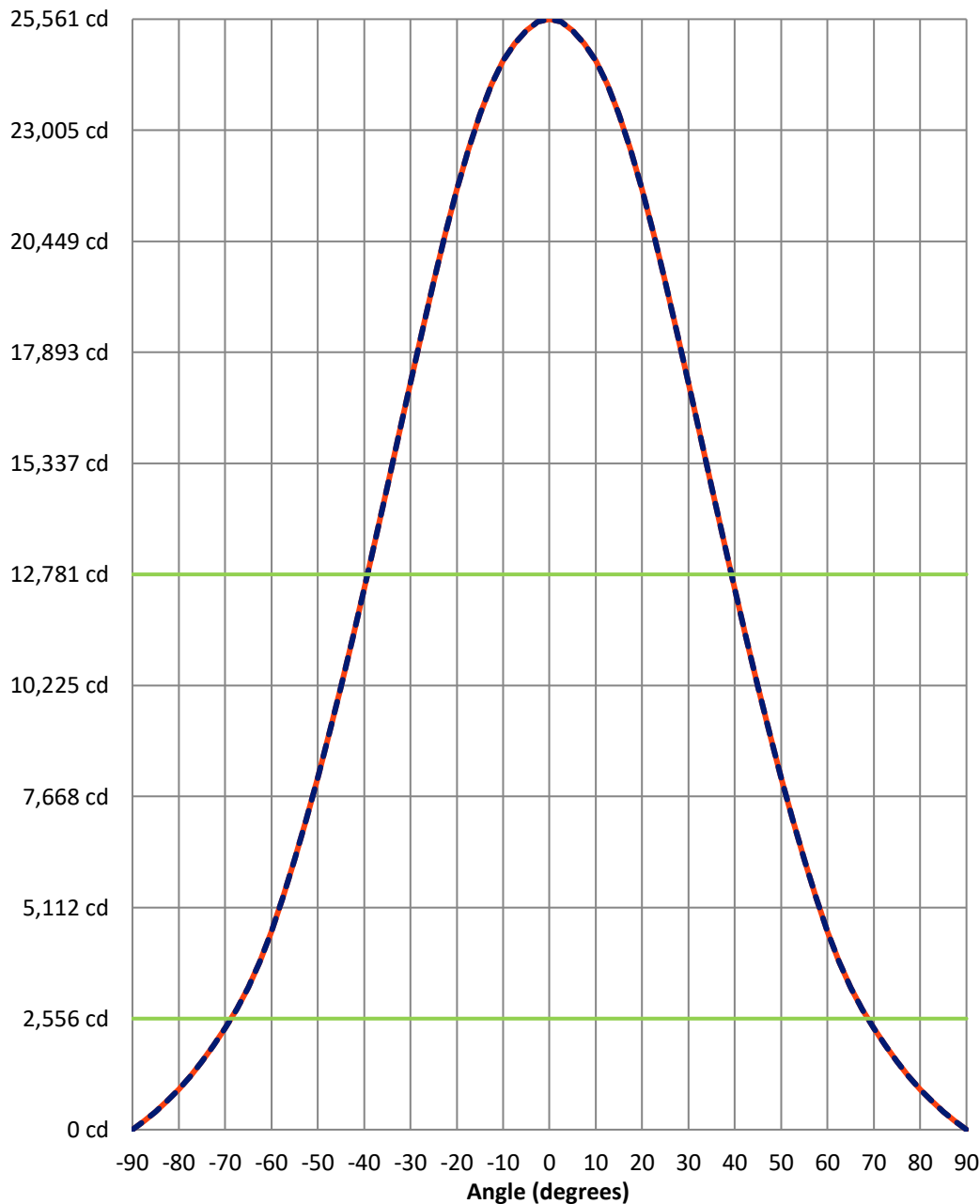


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 19914.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 32608.6
Efficiency: 70.9%

Spill:

Lumens: 13415.2
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	187.1	187.1	182.3	177.5
85°	412.7	412.7	412.7	412.7	412.7	403.1	398.3	393.5	388.7	379.1	374.3
82.5°	662.2	662.2	662.2	662.2	652.6	643.0	638.2	628.6	619.0	604.6	590.2
80°	926.1	926.1	926.1	926.1	911.7	902.1	887.7	878.1	863.7	844.5	825.3
77.5°	1228.4	1228.4	1228.4	1214.0	1204.4	1190.0	1175.6	1156.4	1137.2	1113.2	1084.5
75°	1569.1	1569.1	1569.1	1549.9	1535.5	1521.1	1497.1	1473.1	1444.3	1410.7	1372.4
72.5°	1938.6	1938.6	1938.6	1914.6	1900.2	1876.2	1847.4	1813.8	1780.2	1737.0	1689.1
70°	2336.8	2336.8	2336.8	2308.1	2284.1	2260.1	2221.7	2183.3	2135.3	2087.3	2029.7
67.5°	2768.7	2768.7	2768.7	2735.1	2706.3	2672.7	2629.6	2581.6	2524.0	2456.8	2389.6
65°	3272.5	3272.5	3253.4	3224.6	3191.0	3143.0	3090.2	3023.0	2951.1	2864.7	2773.5
62.5°	3867.6	3867.6	3838.8	3805.2	3762.0	3699.6	3627.6	3541.3	3440.5	3330.1	3219.8
60°	4558.5	4558.5	4524.9	4481.8	4419.4	4342.6	4246.6	4136.3	4011.5	3872.4	3738.0
57.5°	5355.1	5355.1	5311.9	5254.3	5177.5	5081.6	4961.6	4822.5	4664.1	4491.4	4323.4
55°	6218.8	6218.8	6166.0	6098.8	6007.7	5892.5	5748.6	5585.4	5393.5	5196.7	4980.8
52.5°	7135.3	7135.3	7072.9	6996.2	6890.6	6756.2	6593.1	6401.1	6180.4	5950.1	5695.8
50°	8099.8	8099.8	8027.8	7941.4	7821.5	7663.1	7476.0	7255.3	7010.5	6741.8	6449.1
47.5°	9131.5	9131.5	9049.9	8949.1	8805.2	8622.8	8402.1	8147.8	7869.5	7567.2	7236.1
45°	10191.9	10191.9	10100.8	9985.6	9827.2	9620.9	9376.2	9131.5	8776.4	8426.1	8042.2
42.5°	11295.6	11295.6	11190.0	11060.4	10878.1	10652.6	10374.3	10057.6	9707.3	9313.8	8896.3
40°	12442.4	12442.4	12322.4	12173.7	11972.2	11713.0	11401.1	11046.1	10652.6	10215.9	9755.3
37.5°	13613.2	13613.2	13478.9	13315.7	13090.2	12802.3	12452.0	12058.5	11617.1	11132.4	10623.8
35°	14793.6	14793.6	14644.9	14467.4	14217.8	13901.1	13522.1	13085.4	12596.0	12068.1	11497.1
32.5°	15998.1	15998.1	15834.9	15633.4	15350.3	15000.0	14582.5	14107.5	13613.2	12999.0	12375.2
30°	17188.1	17188.1	17010.5	16789.8	16487.5	16103.6	15647.8	15124.7	14544.1	13915.5	13243.7
27.5°	18358.9	18310.9	18162.2	17927.0	17595.9	17188.1	16693.8	16127.6	15499.0	14808.0	14088.3
25°	19510.5	19457.8	19294.6	19035.5	18680.4	18234.1	17701.5	17096.9	16420.3	15691.0	14904.0
22.5°	20614.2	20556.6	20383.9	20105.5	19726.5	19241.8	18670.8	18023.0	17303.2	16521.1	15691.0
20°	21636.3	21573.9	21396.3	21103.6	20710.1	20196.7	19592.1	18896.3	18128.6	17303.2	16420.3
17.5°	22557.6	22495.2	22308.0	22005.7	21636.3	21065.2	20441.4	19707.3	18896.3	18023.0	17096.9
15°	23368.5	23301.3	23109.4	22807.1	22384.8	21847.4	21190.0	20441.4	19592.1	18670.8	17701.5
12.5°	24059.5	23992.3	23795.6	23493.3	23056.6	22519.2	21847.4	21065.2	20196.7	19241.8	18234.1
10°	24606.5	24539.3	24352.2	24064.3	23613.2	23056.6	22384.8	21636.3	20710.1	19726.5	18680.4
7.5°	25000.0	24937.6	24764.8	24476.9	24064.3	23493.3	22807.1	22005.7	21103.6	20105.5	19035.5
5°	25297.5	25225.5	25052.8	24764.8	24352.2	23795.6	23109.4	22308.0	21396.3	20383.9	19294.6
2.5°	25503.8	25417.4	25225.5	24937.6	24539.3	23992.3	23301.3	22495.2	21573.9	20556.6	19457.8
0°	25561.4	25503.8	25297.5	25000.0	24606.5	24059.5	23368.5	22557.6	21636.3	20614.2	19510.5

REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	172.7	172.7	167.9	163.1	158.3	148.8	144.0	139.2	134.4	124.8	120.0
85°	364.7	355.1	345.5	335.9	321.5	311.9	297.5	287.9	273.5	259.1	244.7
82.5°	575.8	561.4	542.2	527.8	508.6	484.6	465.5	441.5	417.5	398.3	374.3
80°	806.1	782.1	758.2	734.2	705.4	676.6	647.8	619.0	585.4	551.8	518.2
77.5°	1055.7	1022.1	988.5	950.1	916.5	878.1	839.7	801.3	758.2	715.0	671.8
75°	1334.0	1290.8	1242.8	1194.8	1151.6	1098.8	1046.1	993.3	935.7	882.9	825.3
72.5°	1636.3	1583.5	1525.9	1468.3	1405.9	1338.8	1271.6	1199.6	1132.4	1065.3	993.3
70°	1962.6	1900.2	1828.2	1756.2	1679.5	1597.9	1516.3	1429.9	1343.6	1257.2	1170.8
67.5°	2312.9	2236.1	2149.7	2063.3	1967.4	1871.4	1775.4	1674.7	1569.1	1463.5	1362.8
65°	2687.1	2591.2	2490.4	2380.0	2269.7	2159.3	2044.1	1924.2	1804.2	1679.5	1569.1
62.5°	3104.6	2984.6	2855.1	2720.7	2596.0	2461.6	2336.8	2188.1	2044.1	1905.0	1765.8
60°	3589.2	3430.9	3272.5	3104.6	2946.3	2773.5	2620.0	2456.8	2293.7	2135.3	1972.2
57.5°	4131.5	3929.9	3738.0	3536.5	3325.3	3133.4	2936.7	2739.9	2557.6	2370.4	2192.9
55°	4745.7	4501.0	4261.0	4011.5	3766.8	3526.9	3277.3	3056.6	2831.1	2620.0	2413.6
52.5°	5417.5	5139.1	4841.6	4558.5	4246.6	3949.1	3670.8	3392.5	3128.6	2874.3	2639.2
50°	6137.2	5810.9	5470.2	5124.8	4769.7	4419.4	4083.5	3757.2	3450.1	3152.6	2874.3
47.5°	6885.8	6516.3	6127.6	5734.2	5355.1	4928.0	4524.9	4155.5	3786.0	3450.1	3128.6
45°	7653.5	7236.1	6809.0	6362.8	5916.5	5455.8	5009.6	4558.5	4155.5	3757.2	3392.5
42.5°	8445.3	7975.0	7500.0	7005.7	6511.5	6007.7	5503.8	5009.6	4524.9	4083.5	3670.8
40°	9261.0	8742.8	8200.6	7663.1	7135.3	6559.5	6007.7	5455.8	4928.0	4419.4	3949.1
37.5°	10076.8	9510.5	8925.1	8320.5	7715.9	7135.3	6511.5	5916.5	5355.1	4769.7	4246.6
35°	10897.3	10273.5	9640.1	8982.7	8320.5	7663.1	7005.7	6362.8	5734.2	5124.8	4558.5
32.5°	11722.6	11041.3	10340.7	9640.1	8925.1	8200.6	7500.0	6809.0	6127.6	5470.2	4841.6
30°	12533.6	11794.6	11041.3	10273.5	9510.5	8742.8	7975.0	7236.1	6516.3	5810.9	5139.1
27.5°	13325.3	12533.6	11722.6	10897.3	10076.8	9261.0	8445.3	7653.5	6885.8	6137.2	5417.5
25°	14088.3	13243.7	12375.2	11497.1	10623.8	9755.3	8896.3	8042.2	7236.1	6449.1	5695.8
22.5°	14808.0	13915.5	12999.0	12068.1	11132.4	10215.9	9313.8	8426.1	7567.2	6741.8	5950.1
20°	15499.0	14544.1	13613.2	12596.0	11617.1	10652.6	9707.3	8776.4	7869.5	7010.5	6180.4
17.5°	16127.6	15124.7	14107.5	13085.4	12058.5	11046.1	10057.6	9131.5	8147.8	7255.3	6401.1
15°	16693.8	15647.8	14582.5	13522.1	12452.0	11401.1	10374.3	9376.2	8402.1	7476.0	6593.1
12.5°	17188.1	16103.6	15000.0	13901.1	12802.3	11713.0	10652.6	9620.9	8622.8	7663.1	6756.2
10°	17595.9	16487.5	15350.3	14217.8	13090.2	11972.2	10878.1	9827.2	8805.2	7821.5	6890.6
7.5°	17927.0	16789.8	15633.4	14467.4	13315.7	12173.7	11060.4	9985.6	8949.1	7941.4	6996.2
5°	18162.2	17010.5	15834.9	14644.9	13478.9	12322.4	11190.0	10100.8	9049.9	8027.8	7072.9
2.5°	18310.9	17188.1	15998.1	14793.6	13613.2	12442.4	11295.6	10191.9	9131.5	8099.8	7135.3
0°	18358.9	17188.1	15998.1	14793.6	13613.2	12442.4	11295.6	10191.9	9131.5	8099.8	7135.3

REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	115.2	105.6	96.0	91.2	81.6	76.8	67.2	57.6	52.8	43.2	33.6
85°	230.3	211.1	196.7	182.3	167.9	148.8	134.4	120.0	100.8	86.4	67.2
82.5°	350.3	326.3	302.3	278.3	254.3	230.3	201.5	177.5	153.6	129.6	100.8
80°	484.6	446.3	412.7	379.1	345.5	311.9	273.5	239.9	201.5	167.9	134.4
77.5°	623.8	580.6	532.6	484.6	436.7	393.5	345.5	302.3	259.1	211.1	167.9
75°	772.6	715.0	662.2	599.8	542.2	479.8	422.3	364.7	311.9	259.1	201.5
72.5°	926.1	854.1	782.1	715.0	643.0	571.0	503.8	431.9	364.7	302.3	239.9
70°	1084.5	998.1	911.7	830.1	748.6	662.2	585.4	503.8	422.3	345.5	273.5
67.5°	1252.4	1151.6	1050.9	945.3	854.1	758.2	662.2	571.0	479.8	393.5	311.9
65°	1434.7	1314.8	1190.0	1079.7	959.7	854.1	748.6	643.0	542.2	436.7	345.5
62.5°	1621.9	1482.7	1343.6	1204.4	1079.7	945.3	830.1	715.0	599.8	484.6	379.1
60°	1813.8	1655.5	1497.1	1343.6	1190.0	1050.9	911.7	782.1	662.2	532.6	412.7
57.5°	2010.6	1833.0	1655.5	1482.7	1314.8	1151.6	998.1	854.1	715.0	580.6	446.3
55°	2212.1	2010.6	1813.8	1621.9	1434.7	1252.4	1084.5	926.1	772.6	623.8	484.6
52.5°	2413.6	2192.9	1972.2	1765.8	1569.1	1362.8	1170.8	993.3	825.3	671.8	518.2
50°	2620.0	2370.4	2135.3	1905.0	1679.5	1463.5	1257.2	1065.3	882.9	715.0	551.8
47.5°	2831.1	2557.6	2293.7	2044.1	1804.2	1569.1	1343.6	1132.4	935.7	758.2	585.4
45°	3056.6	2739.9	2456.8	2188.1	1924.2	1674.7	1429.9	1199.6	993.3	801.3	619.0
42.5°	3277.3	2936.7	2620.0	2336.8	2044.1	1775.4	1516.3	1271.6	1046.1	839.7	647.8
40°	3526.9	3133.4	2773.5	2461.6	2159.3	1871.4	1597.9	1338.8	1098.8	878.1	676.6
37.5°	3766.8	3325.3	2946.3	2596.0	2269.7	1967.4	1679.5	1405.9	1151.6	916.5	705.4
35°	4011.5	3536.5	3104.6	2720.7	2380.0	2063.3	1756.2	1468.3	1194.8	950.1	734.2
32.5°	4261.0	3738.0	3272.5	2855.1	2490.4	2149.7	1828.2	1525.9	1242.8	988.5	758.2
30°	4501.0	3929.9	3430.9	2984.6	2591.2	2236.1	1900.2	1583.5	1290.8	1022.1	782.1
27.5°	4745.7	4131.5	3589.2	3104.6	2687.1	2312.9	1962.6	1636.3	1334.0	1055.7	806.1
25°	4980.8	4323.4	3738.0	3219.8	2773.5	2389.6	2029.7	1689.1	1372.4	1084.5	825.3
22.5°	5196.7	4491.4	3872.4	3330.1	2864.7	2456.8	2087.3	1737.0	1410.7	1113.2	844.5
20°	5393.5	4664.1	4011.5	3440.5	2951.1	2524.0	2135.3	1780.2	1444.3	1137.2	863.7
17.5°	5585.4	4822.5	4136.3	3541.3	3023.0	2581.6	2183.3	1813.8	1473.1	1156.4	878.1
15°	5748.6	4961.6	4246.6	3627.6	3090.2	2629.6	2221.7	1847.4	1497.1	1175.6	887.7
12.5°	5892.5	5081.6	4342.6	3699.6	3143.0	2672.7	2260.1	1876.2	1521.1	1190.0	902.1
10°	6007.7	5177.5	4419.4	3762.0	3191.0	2706.3	2284.1	1900.2	1535.5	1204.4	911.7
7.5°	6098.8	5254.3	4481.8	3805.2	3224.6	2735.1	2308.1	1914.6	1549.9	1214.0	926.1
5°	6166.0	5311.9	4524.9	3838.8	3253.4	2768.7	2336.8	1938.6	1569.1	1228.4	926.1
2.5°	6218.8	5355.1	4558.5	3867.6	3272.5	2768.7	2336.8	1938.6	1569.1	1228.4	926.1
0°	6218.8	5355.1	4558.5	3867.6	3272.5	2768.7	2336.8	1938.6	1569.1	1228.4	926.1

REPORT NUMBER: P623949

CATALOG NUMBER: IFLD-L-SA7C-740-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.0	19.2	9.6	0.0
85°	52.8	33.6	19.2	0.0
82.5°	76.8	52.8	24.0	0.0
80°	100.8	67.2	33.6	0.0
77.5°	129.6	86.4	43.2	0.0
75°	153.6	100.8	52.8	0.0
72.5°	177.5	120.0	57.6	0.0
70°	201.5	134.4	67.2	0.0
67.5°	230.3	148.8	76.8	0.0
65°	254.3	167.9	81.6	0.0
62.5°	278.3	182.3	91.2	0.0
60°	302.3	196.7	96.0	0.0
57.5°	326.3	211.1	105.6	0.0
55°	350.3	230.3	115.2	0.0
52.5°	374.3	244.7	120.0	0.0
50°	398.3	259.1	124.8	0.0
47.5°	417.5	273.5	134.4	0.0
45°	441.5	287.9	139.2	0.0
42.5°	465.5	297.5	144.0	0.0
40°	484.6	311.9	148.8	0.0
37.5°	508.6	321.5	158.3	0.0
35°	527.8	335.9	163.1	0.0
32.5°	542.2	345.5	167.9	0.0
30°	561.4	355.1	172.7	0.0
27.5°	575.8	364.7	172.7	0.0
25°	590.2	374.3	177.5	0.0
22.5°	604.6	379.1	182.3	0.0
20°	619.0	388.7	187.1	0.0
17.5°	628.6	393.5	187.1	0.0
15°	638.2	398.3	196.7	0.0
12.5°	643.0	403.1	196.7	0.0
10°	652.6	412.7	196.7	0.0
7.5°	662.2	412.7	196.7	0.0
5°	662.2	412.7	196.7	0.0
2.5°	662.2	412.7	196.7	0.0
0°	662.2	412.7	196.7	0.0

(END OF REPORT)